

## EXHIBIT 1

# STEVEN M. WATKINS

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## EDUCATION

**Doctor of Philosophy**, Food Science and Technology. University of California at Davis, 1998.

**Bachelor of Science** with Honors, Food Science and Technology. Cornell University, 1993.

## PROFESSIONAL EXPERIENCE

Interim CEO, Lipomics Technologies. May 2006-Present.

President and Chief Scientific Officer, Lipomics Technologies, Inc. 3410 Industrial Boulevard, West Sacramento, CA 95691. May 2000-Present.

Editorial Advisory Board, *Metabolomics*, Springer. 2004-Present

Advisory Board, NCMHD Center of Excellence in Nutritional Genomics. 2003-2007.

Co-Instructor. Lipids (FS&T 211). University of California at Davis, Winter Quarter 2000-2002.

Co-Instructor. Analytical Chromatography (FS&T 250). University of California at Davis, Winter Quarter 2000-2002.

Post-Doctoral Researcher, University of California at Davis. 1998-2001.

Visiting Scientist, Nestle Nutrition Research Facility. Lausanne, Switzerland. June-August, 1998.

Teaching Assistant, University of California at Davis. Food Science & Technology 250: Laboratory in Chromatography, 1995-1998

Teaching Assistant, University of California at Davis. Food Science and Technology 100A, B: Food Chemistry, 1995-1997

## PUBLICATIONS

1. Walzem RL, Baillie RA, Wiest M, Davis R, Watkins SM, Porter TE, Simon J, Cogburn LA. Functional annotation of genomic data with metabolic inference. *Poult Sci.* 2007 Jul;86(7):1510-22.
2. Wiest MM, Watkins SM. Biomarker discovery using high-dimensional lipid analysis. *Curr Opin Lipidol.* 2007 Apr;18(2):181-6.
3. Hammond LE, Albright CD, He L, Rusyn I, Watkins SM, Doughman SD, Lemasters JJ, Coleman RA. Increased oxidative stress is associated with balanced increases in hepatocyte apoptosis and proliferation in glycerol-3-phosphate acyltransferase-1 deficient mice. *Exp Mol Pathol.* 2006 Dec 28;
4. German JB, Gillies LA, Smilowitz JT, Zivkovic AM, Watkins SM. Lipidomics and lipid profiling in metabolomics. *Curr Opin Lipidol.* 2007 Feb;18(1):66-71.
5. Beigneux AP, Vergnes L, Qiao X, Quatela S, Davis R, Watkins SM, Coleman RA, Walzem RL, Philips M, Reue K, Young SG. Agpat6--a novel lipid biosynthetic gene required for triacylglycerol production in mammary epithelium. *J Lipid Res.* 2006 Apr;47(4):734-44.
6. German JB, Watkins SM, Fay LB. 2005. Metabolomics in practice: emerging knowledge to guide future dietetic advice toward individualized health. *J Am Diet Assoc.* 105(9):1425-32.
7. Morris M, Watkins SM. 2005. Focused metabolomic profiling in the drug development process: advances from lipid profiling. *Curr Opin Chem Biol.* 9(4):407-12.
8. German JB, Hammock BD, Watkins SM. 2005. Metabolomics: Building on a century of biochemistry to guide human health. *Metabolomics.* 1(2):3-9.
9. Mutch DM, Grigorov M, Berger A, Fay LB, Roberts MA, Watkins SM, Williamson G, German JB. 2005. An integrative metabolism approach identifies stearoyl-CoA desaturase as a target for an arachidonate-enriched diet. *FASEB J.* 19(6):599-601.
10. Watkins, SM. 2004. An interview with Steven M. Watkins, Ph.D., president and chief scientific officer, Lipomics Technologies, Inc. Interview by Vicki Glaser. *Assay Drug Dev Technol.* 2(4):339-43.
11. Watkins, SM. 2004. Lipomic profiling in drug discovery, development and clinical trial evaluation. *Curr Opin Drug Discov Devel.* 7(1):112-7.
12. German, JB and Watkins, SM. 2004. Metabolic assessment- a key to nutritional strategies for health. *Trends Food Sci. & Tech.* 5:541-549.
13. Stone SJ, Myers H, Watkins SM, Brown BE, Feingold KR, Elias PM, Farese RV. 2003. Lipopenia and Skin Barrier Abnormalities in DGAT2-Deficient Mice. *J Biol Chem.* 279(12) 11767-11776.
14. Moran FM, Hendrickx AG, Shideler S, Overstreet JW, Watkins SM, and Lasley, BL. 2003. Effects of 2,3,7, 8-tetrachlorodibenzo-p-dioxin (TCDD) on fatty acid availability and neural tube formation in cynomolgus macaque, *Macaca fascicularis*. *Birth Defects Res Part B Dev Reprod Toxicol.* 71(1):37-46.
15. German, JB, Roberts, M-A, Watkins, SM. 2003. Personal Metabolomics as a Next Generation Nutritional Assessment. *J. Nutr.* 133: 4260-4266.
16. Watkins SM, Zhu X, Zeisel SH. 2003. Phosphatidylethanolamine-N-methyltransferase activity and dietary choline regulate hepatic lipid export and essential fatty acid metabolism. *J Nutr.* 133 (11):3386-3391.

17. Stanton B, DeWitt J, Henshel D, Watkins SM, Lasley B. 2003. Fatty acid metabolism in neonatal chickens (*Gallus domesticus*) treated with 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) or 3,3',4,4',5-pentachlorobiphenyl (PCB-126) in ovo. *Comp Biochem. Physiol. C Toxicol. Pharmacol.* 136C:73-84.
18. German JB, Roberts MA, Watkins SM. 2003. Genomics and metabolomics as markers for the interaction of diet and health: lessons from lipids. *J. Nutr.* 133(6):2078S-83S.
19. Watkins SM, German JB. 2002. Toward the implementation of metabolomic assessments of human health and nutrition. *Curr. Opin. Biotech.* 13(5):512-6.
20. Watkins SM, Reifsnnyder PR, Pan HJ, German JB, Leiter EH. 2002. Lipid metabolome-wide effects of the peroxisome proliferator-activated receptor  $\gamma$  agonist rosiglitazone. *J. Lipid Res.* 43(11):1809-17.
21. German JB, Roberts MA, Fay L, Watkins SM. 2002. Metabolomics and individual assessment: the next great challenge for nutrition. *J. Nutr.* 132(9):2486-7.
22. Watkins SM, German JB. 2002. Metabolomics and biochemical profiling in drug discovery and development. *Curr. Opin. Mol. Ther.* 4(3):224-226.
23. Stanton BJ, Watkins SM, German JB, Lasley BL. 2002. Effect of estrogen and 2,3,7,8-tetrachlorodibenzo--dioxin (TCDD) on plasma fatty acids of immature male chickens (*Gallus domesticus*), *Comp. Biochem. Physiol. C Toxicol. Pharmacol.* 132(2):129-142.
24. Watkins SM, Hammock BD, Newman JW, German JB. 2001. Individual metabolism should guide agriculture towards foods for improved health and nutrition. *Amer. J. Clin. Nutr.* Sep;74(3):283-286.
25. Stanton BJ, Watkins SM, German JB, Lasley BL. 2001 Interaction of estrogen and 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in hepatic fatty acid synthesis and metabolism of male chickens (*Gallus domesticus*). *Comp. Biochem. Physiol.* 129C(2): 137-150.
26. Watkins SM, Lin TY, Davis RM, Ching JR, DePeters EJ, Walzem RL, German JB. 2001. Unique phospholipid metabolism in heart from mice fed  $\alpha$ -linolenic or docosahexaenoic acids. *Lipids.* 36(3):247-254.
27. Quasney ME, Carter LC, Oxford C, Watkins SM, Gershwin ME, German JB. 2001. Inhibition of proliferation and induction of apoptosis in SNU-1 human gastric cancer cells by the plant sulfolipid, sulfoquinovosyldiacylglycerol. *J. Nutr. Biochem.* 12(5):310-315.
28. Watkins SM and German JB. 2001. Unsaturated Fatty Acids. In: *Food Lipids: Chemistry, Nutrition and Biotechnology*, 2<sup>nd</sup> ed. Akoh CC, Min DB, eds. Marcel Dekker, New York.
29. Watkins SM, German JB, Shoenfeld Y, Gershwin ME. 2001. Lipids and Immunity. In: *Atherosclerosis and Autoimmunity*. Y. Shoenfeld ed. Elsevier Science Press, Amsterdam. p. 87-111.
30. Watkins SM. 2000. Comprehensive Lipid Analysis: A Powerful Metanomic Tool for Predictive and Diagnostic Medicine. *IMAJ.* 2:722-724.
31. Watkins SM and German JB. 2000. Mitochondrial Cardiolipin Content and Composition: Implications for Human Health and Disease. In: *Research Advances in Lipids*. R. M. Mohan ed. Global Research Network, India.
32. Watkins SM, Carter LC, Mak J, Tsau J, Yamamoto SA, German JB. 1999. Butyric acid and tributyrin induce apoptosis in human hepatic tumour cells. *J. Dairy Res.* 66:559-567.
33. Watkins SM, Carter LC, German JB. 1998. Docosahexaenoic acid accumulates in cardiolipin and enhances HT-29 cell oxidant production. *J. Lipid Res.* 39(8):1583-1588.
34. Watkins SM and German JB. 1998. Omega Fatty Acids. In: *Food Lipids: Chemistry, Nutrition and Biotechnology*. C. C. Akoh, D. B. Min eds. Marcel Dekker, New York.
35. Watkins SM, Smith JG, Höchderffer LL, German JB. 1996. Selective incorporation of docosahexaenoic acid (DHA) into cardiolipin of human HT-29 adenocarcinoma cells. *FASEB J.* 10(3):A721.
36. Walzem RL, Watkins SM, Frankel EN, Hansen RJ, German JB. 1995. Older plasma lipoproteins are more susceptible to oxidation: a linking mechanism for the lipid and oxidation theories of atherosclerotic cardiovascular disease. *Proc. Natl. Acad. Sci. USA.* 92(16):7460-7464.
37. Cho Y, Gu W, Watkins SM, Brady JW, Batt CA. 1994. Thermostable variants of bovine  $\beta$ -lactoglobulin. *Protein Eng.* 7(2):263-70.
38. Lee SP, Kim DS, Watkins SM, Batt CA. 1994. Reducing whey syneresis in yogurt by the addition of a thermolabile variant of  $\beta$ -lactoglobulin. *Biosci. Biotech. and Biochem.* 58(2):309-313.
39. Lee SP, Cho Y, Watkins SM, Brady JW, Batt CA. 1992. Improving the gelation characteristics of bovine  $\beta$ -lactoglobulin. *J. Dairy Sci.* 75(S1):97.

## SELECTED PRESENTATIONS

- Watkins, SM.** 2005. Metabolomics: An Overview. Genomics and Proteomics Interest Group meeting at the Food and Drug Administration (FDA). October 18th, Rockville, MD.
- Watkins, SM** 2005. Development of Biochemical Assays for Weight Loss and Obesity. World Obesity Conference. September 13-14. Washington, DC.
- Watkins SM.** 2003. Metabolic Profiling: Applications to Toxicology and Risk Reduction. National Institute of Environmental Health Sciences/NIH/DHHS. May 14-15, Research Triangle Park, NC
- Watkins SM.** 2003. National Academy of Sciences Food and Nutrition Meeting. May 5-6, Washington, DC
- Watkins SM.** 2002. Metabolomic Analyses and Individual Assessments of Health. International workshop on "Frontiers of Lipid Research/Genetic Aspects of Lipid Regulation." May 27-28, Utrecht, The Netherlands.
- Watkins SM.** 2001. Delivering Health to the Individual. A scientific perspective on antioxidants for sustaining health, December 11<sup>th</sup>. COPIA, Napa, CA.
- Watkins SM.** 2001. Quantitative Metabolomics: Assessing Individual Metabolism. Keynote Address, National Institute of Environmental Health and Safety, DERT Science Retreat. November 27th, South Pines, NC.

- German JB, **Watkins SM**, Frankel EN. 2001. Lipid oxidation: A problem in multiple phases. Annual meeting of the Institute of Food Technologists, New Orleans, LO.
- Watkins SM**. 2001. Applying BioInformatic Principals to Lipids and Nutrition. Annual meeting of the Institute of Shortenings and Edible Oils, Technical Committee, February 1, Sacramento, CA.
- Watkins SM** 2000 Applying BioInformatic Techniques to Lipid Analyses. Annual meeting of the Electrophoresis Society, October 23, Pasadena, CA.
- Watkins SM** 2000. The Composition and Health Implications of Dietary Olive Oil. March 20, Santa Rosa, CA.
- Watkins SM** 1999. Health Aspects of Dietary Olive Oil. Conference on Olive Oil Production. October 21, University of California at Davis.
- Watkins SM** 1999. Benefits of Milk Fat in Your Diet. Annual Meeting of the Western United Dairymen. March 10-12, San Diego, CA.
- Watkins SM** 1999. Nutritional Benefits of Milk Fat. Mid- and South-Valley Dairy Days. January 20-21, Selma/Merced, CA.
- Watkins SM** 1998. Milk fat: It's Role in a Healthy Diet. California Milk Producer Research Conference: Report on Producers' Investments. October 28, Visalia, CA.
- Watkins SM**, German JB. 1998. Fish Oil Fatty Acids and Mitochondrial Function. In Innovations in Food Chemistry. 34th American Chemical Society Western Regional Meeting. October 28-31, San Francisco, CA.
- Watkins SM**. 1998. Cell Oxidant Production: A Role for DHA and Cardiolipin. Annual meeting of the Oxygen Club of California, Santa Barbara, CA.
- Watkins SM**. 1997. Docosahexaenoic acid enrichment of mitochondrial cardiolipin enhances TNF-induced apoptosis in HT-29 cells. Annual meeting of the Oxygen Club of California, Santa Barbara, CA.
- Watkins SM**. 1992. Enhancing the thermal stability of bovine  $\kappa$ -lactoglobulin. Annual meeting of the Institute of Food Technologists, New Orleans, LO.
- Watkins SM**. 1991. The effects of heat treatment on the viscosities of whey protein isolate solutions. Annual meeting of the Institute of Food Technologists, Dallas, TX.